## **CLAIMS**

The following is a complete listing of the claims in the application. No claim amendments are contained herein.

## 1-37. (Canceled)

38. (Previously Presented) A method of forming a capacitor, comprising:

forming a first electrode in a recess of a substrate assembly and selected from a group consisting of transition metals, conductive metal-oxides, alloys thereof, and combinations thereof, wherein the first electrode extends above an uppermost surface of the substrate assembly;

forming a dielectric on the first electrode and the uppermost surface of the substrate assembly; and

forming a second electrode on the dielectric and the uppermost surface of the substrate assembly.

- 39. (Original) The method of claim 38, wherein forming the first electrode includes performing chemical vapor deposition.
- 40. (Original) The method of claim 38, wherein forming the first electrode includes planarization after performing chemical vapor deposition.

- 41. (Original) The method of claim 38, wherein forming the first electrode from transition metals includes forming the first electrode from a group cosisting of Pt, Rh, Ir, Ru, and Pd.
- 42. (Original) The method claim 38, wherein forming the first electrode from a conductive metal-oxide includes forming the first electrode from a group consisting of  $IrO_x$ ,  $RuO_x$  and  $RhO_x$  and wherein x < 4.
- 43. (Original) The method of claim 38, wherein forming the first electrode includes forming the first electrode selected from the group consisting of Pt, Rh, Ir, Ru, Pd, IrO<sub>x</sub>, RuO<sub>x</sub>, RhO<sub>x</sub>, wherein x < 4, alloys thereof, and combinations thereof.

## 44. (Canceled)

- 45. (Original) The method of claim 38, wherein forming the second electrode includes forming the second electrode from a group consisting of transition metals, conductive metal-oxides, aluminum, TiN, TaN, polysilicon, W, and WN.
- 46. (Original) The method of claim 38, wherein forming the second electrode includes forming the second electrode by chemical vapor deposition.

- 47. (Previously Presented) The method of claim 38, wherein forming the dielectric includes forming the dielectric from an insulating metal oxide.
- 48. (Original) The method of claim 47, wherein forming the dielectric includes forming a material selected from the group consisting of barium strontium titanate,  $Ta_2O_5$ ,  $SrTiO_3$ ,  $Sr_wBi_xTa_yO_z$ , and  $Ba_xSr_{1-x}TiO_3$  where 0 < x < 1.
- 49. (Previously Presented) The method of claim 38, further comprising forming the substrate assembly before forming the first electrode.
  - 50. (Canceled)
  - 51. (Canceled)
- 52. (Previously Presented) A method of forming a capacitor, comprising:

  forming a layer of hemispherical grain polysilicon in a recess of a substrate assembly;

  forming a first electrode on the hemispherical grain polysilicon, wherein the first electrode is
  selected from a group consisting of transition metals, conductive metal-oxides, alloys thereof, and
  combinations thereof, and wherein the first electrode extends above an uppermost surface of the
  substrate assembly;

forming a dielectric on the first electrode and the uppermost surface of the substrate assembly;

and

forming a second electrode on the dielectric and the uppermost surface of the substrate assembly.

- 53. (Original) The method of claim 52, further comprising planarizing after forming the first electrode.
- 54. (Original) The method of claim 52, wherein planarizing includes performing mechanical abrasion.
- 55. (Original) The method of claim 54, wherein performing mechanical abrasion includes performing chemical mechanical planarization.
- 56. (Original) The method of claim 52, further comprising removing the hemispherical grain polysilicon.
- 57. (Previously Presented) The method of claim 52, further comprising forming the substrate assembly before forming the first electrode.
  - 58. (Previously Presented) A method, comprising:
    forming a substrate assembly;
    forming a layer of hemispherical grain polysilicon in a recess of the substrate assembly;

forming a first electrode on the hemispherical grain polysilicon, wherein the first electrode is selected from a group consisting of transition metals, conductive metal-oxides, alloys thereof, and combinations thereof, and wherein the first electrode extends above an uppermost surface of the substrate assembly;

removing a portion of the substrate assembly;

removing the hemispherical grain polysilicon;

forming a dielectric on the first electrode and the uppermost surface of the substrate assembly;

forming a second electrode on the dielectric and the uppermost surface of the substrate assembly.

- 59. (Original) The method of claim 58, further comprising forming an interconnect recessed in the substrate assembly, and wherein forming the first electrode includes forming the first electrode in the interconnect recessed in the substrate assembly.
- 60. (Original) The method of claim 58, further comprising forming a contact in the substrate assembly, and wherein forming the first electrode includes forming the first electrode in the contact.

61-80. (Canceled)

and